Listing Of Claims

Claims 1-28 (Canceled)

29. (original) A method for fabricating a semiconductor component comprising:

providing a semiconductor die comprising a die contact;

forming a polymer layer on the die;

forming a redistribution conductor on the polymer layer in electrical communication with the die contact;

forming a bonding pad on the conductor;

forming a first metal layer on the bonding pad; and forming a non-oxidizing metal layer on the first metal layer.

- 30. (original) The method of claim 29 wherein the non-oxidizing metal layer comprises Au, Pt or Pd.
- 31. (original) The method of claim 29 wherein the first metal layer comprises a metal selected from the group consisting of Ni V, Cr, CrCu and Cu.
- 32. (original) The method of claim 29 wherein the non-oxidizing metal layer covers the bonding pad and the conductor.
- 33. (original) The method of claim 29 further comprising forming a stud bump on the bonding pad.
- 34. (original) The method of claim 29 further comprising wire bonding a wire to the bonding pad.
- 35. (original) The method of claim 29 further comprising forming a second polymer layer on the die and

the conductor having an opening aligned with the bonding pad.

36. (original) A method for fabricating a semiconductor component comprising:

providing a die comprising a circuit side and a plurality of die contacts on the circuit side having a first pattern;

forming a polymer layer on the circuit side;

forming a plurality of conductors on the polymer layer in electrical communication with the die contacts;

forming a plurality of bonding pads on the polymer layer in electrical communication with the conductors and having a second pattern;

forming a barrier/adhesion layer on the conductors and the bonding pads; and

forming a non-oxidizing layer on the barrier/adhesion layer.

- 37. (original) The method of claim 36 wherein the forming the conductors step and the forming the bonding pads step comprise electrolessly depositing a first metal.
- 38. (original) The method of claim 36 wherein the forming the barrier/adhesion layer step comprises electrolessly depositing a second metal.
- 39. (original) The method of claim 36 wherein the forming the non-oxidizing layer step comprises electrolessly depositing a third metal.
- 40. (original) The method of claim 36 wherein the polymer layer comprises a material selected from the group consisting of polyimide, PBO and BCB.

- 41. (original) The method of claim 36 wherein the barrier/adhesion layer comprises a material selected from the group consisting of a metal selected from the group consisting of V, Cr, CrCu and Cu.
- 42. (original) A method for fabricating a semiconductor component comprising:

providing a substrate comprising a semiconductor die comprising a plurality of die contacts;

forming a plurality of metal bumps on the die contacts;

forming a polymer layer on the die and planarizing the polymer layer and the metal bumps to a same surface;

forming a plurality of conductors on the polymer layer in electrical communication with the metal bumps, the conductors comprising bonding pads having a different pattern than the die contacts;

forming a barrier/adhesion layer on the conductors and the bonding pads;

forming a non-oxidizing layer on the barrier/adhesion layer; and

singulating the die from the substrate.

- 43. (original) The method of claim 42 further comprising forming a plurality of stud bumps on the bonding pads.
- 44. (original) The method of claim 42 further comprising forming a plurality of wire bonds on the bonding pads.
- 45. (original) The method of claim 42 further comprising forming a second polymer layer on the die having openings aligned with the bonding pads.

- 46. (original) The method of claim 42 wherein the substrate comprises a semiconductor wafer.
- 47. The method of claim 42 wherein the forming the barrier/adhesion layer step comprises electrolessly depositing Ni.
- 48. (original) The method of claim 42 wherein the forming the non-oxidizing layer step comprises electrolessly depositing Au.
- 49. (original) A method for fabricating a semiconductor component comprising:

providing a semiconductor die including a circuit side and a plurality of die contacts on the circuit having a first pattern;

forming a polymer layer on the circuit side;

forming a plurality of conductors on the polymer layer in electrical communication with the die contacts; and

forming a plurality of bonding pads on the conductors having a second pattern;

forming a barrier/adhesion layer on the conductors and the bonding pads; and

forming a non-oxidizing layer on the barrier/adhesion layer.

- 50. (original) The method of claim 49 further comprising adjusting electrical characteristics of the conductors by controlling a thickness of the barrier/adhesion layer.
- 51. (original) The method of claim 49 further comprising forming a second polymer layer on the circuit side encapsulating the conductors and having a plurality of openings aligned with the bonding pads.

- 52. (original) The method of claim 49 wherein the non-oxidizing layer completely seals the conductors and the bonding pads.
- 53. (original) The method of claim 49 further comprising forming a plurality of stud bumps on the bonding pads.
- 54. (original) The method of claim 53 further comprising wire bonding to the stud bumps.
- 55. (original) The method of claim 49 further comprising wire bonding to the bonding pads.

Claims 56-68 (Canceled)